

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources, River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN, ROORKEE – 247 667 (UTTARAKHAND)

NOTICE INVITING QUOTATION

File No. 5(XXVII)/2018-Pur-2

Registered post/Speed Post

Dated: 09.10.2018

From: The Director,
National Institute of Hydrology,
Jalvigyan Bhawan,
Roorkee – 247 667 (Uttarakhand)

To: _____

Dear Sir(s)

Sealed Quotations are invited from the registered firms/contractors for the following works mentioned below, so as to reach by 29.10.2018 **at 15.00 Hours** in the Office of Purchase Officer, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee – 247 667. The quotations received after due date and time will not be considered, and no correspondence in this regarding will be entertained:

| Sl. No. | Particular of works | Particulars of Work Component | EMD Rs. |
|---------|---|--|--------------|
| 1. | Hydrogeological characterization and mapping of Rispana basin, Dehradun | <ul style="list-style-type: none">• Study of rock type, their extensions and prepare the geological map• Study of geological structures like folds, faults, joints and fractures• Identification of springs and groundwater recharge sites.• Study of hydrogeological properties of the geological formation• Groundwater condition• Type of aquifers and their extensions• Hydrograph studies of ground water levels• Preparation of hydro-geological map. | Rs. 5,000.00 |

2. The quotations complete in all respect with telephone number, etc. be sent to “The Purchase Officer, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee – 247 667 (Uttarakhand) in sealed envelope.
3. **The firm should clearly mention on the top of the sealed envelope “Quotations for Hydrogeological characterization and mapping of Rispana basin, Dehradun” and “to be opened on 30.10.2018 at 1500 hours”.**

TERMS AND CONDITIONS:

1. The tender document containing specifications of work, terms and conditions, etc. can be obtained from the Purchase Section (Admn.), National Institute of Hydrology, Roorkee on payment of Rs. 590/- (Rs. Five hundred ninety only) (non-refundable) in the form of crossed Demand Draft/Pay order in favour of National Institute of Hydrology, payable at Roorkee, which has to be attached along with the Bid.
2. The tender document can also be downloaded from our website www.nihroorkee.gov.in. However, the demand draft towards the cost of tender document as prescribed above will have to be enclosed along with the tender document while submitting the same. In case the offer is not accompanied with the valid demand draft for the cost of tender document as detailed above, the tender will be rejected.
3. In case the date of opening is declared holiday on any account the said date shall be substituted by the next working day.

4. Tender complete in all respect should be deposited in the Tender Box kept in the Purchase Section (Admn), National Institute of Hydrology, Jalvigyan Bhawan, Roorkee – 247 667 or can be mailed to “The Purchase Officer, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee – 247 667 (Uttarakhand)” in sealed envelope.

| | |
|---|--|
| LAST DATE & TIME FOR SUBMISSION OF BID WILL BE | 29.10.2018 at 15.00 Hours |
| DATE/TIME OF OPENING OF BIDS WILL BE | 30.10.2018 at 15.00 Hours |
| VENUE OF BID OPENING AT NIH, ROORKEE | OFFICE ROOM OF CHAIRMAN, TENDER OPENING COMMITTEE, NIH, ROORKEE |

PLEASE NOTE: Please strictly adhere to the dates/times mentioned in this document.

5. The Tender/Bid will be opened in the presence of representatives of tenderers, if any. Request for postponement will not be entertained. Fax/e-mail bids may not be accepted. Late/Delayed tenders shall not be opened. **The Bids will be opened on 30.10.2018 at 1500 hours in the office room of the Chairman of the Tender Opening Committee in presence of such of the tenderers/or their authorized agents, who are interested to be present at the spot at the time of opening the quotations.**
6. The Director, NIH, reserve the right to accept or reject all or any of the quotations in part or full at any time prior to award the work order, without assigning any reasons, whatsoever, and without incurring any liability or obligation, whatsoever, to the effected bidders.
7. The work has to be completed within 4 months from the date of award of contract work for hydrogeological characterization and mapping of Rispana basin, Dehradun. The quotation shall remain valid for acceptance for a period of not less than 90 days after the specific date of opening of the quotation.
8. If the firm does not mention percentage of GST etc., it would be assumed that the rates include all these, and subsequently no request for charging them as extra will be entertained in this regard.
9. The quotations should be submitted on your letter head for the work as per the specifications/ requirements given in enquiry letter. GST number and Tax related papers may also be attached with quotation.
10. All the disputes/litigation, if any will be subjected to Roorkee/Haridwar jurisdiction only.
11. **IMPORTANT NOTE: Please provide the following information in your quotation, otherwise your quotation is liable to be rejected:**
- (a) GST, if any
 - (b) Payment terms
 - (c) Delivery/work conditions for providing data report
 - (d) Validity of data
 - (e) Instruments to be used in the Contract work.

Yours faithfully,

Purchase Officer

Copy to:

1. P.I. of the Project.
2. OIC, Computer Centre
3. Finance Officer

Purchase Officer

TENDER DOCUMENT

Tender Notice No. 5(XXVII)/2018-Pur-2, Dated 09.10.2018

NAME OF THE PROJECT: Consultancy study "Preparation of Strategic Land and Water Management Plan for Rejuvenation of Rispana River System"

NAME OF THE WORK: **HYDROGEOLOGICAL
CHARACTERIZATION AND MAPPING OF
RISPANA BASIN, DEHRADUN**



आपो हिष्टा भयोमुवः

**NATIONAL INSTITUTE OF HYDROLOGY
ROORKEE – 247 667 (UTTARAKHAND)**

OCTOBER 2018

TERMS OF REFERENCE AND INSTRUCTION TO BIDDERS

Introduction

National Institute of Hydrology, Roorkee intend to undertake the work of hydrogeological characterization and mapping of Rispana basin, Dehradun, Uttarakhand.

Description of Work

Hydrogeological characterization and mapping of Rispana basin, Dehradun, as described in Annexure I)

Responsibilities of National Institute of Hydrology, Roorkee

- To provide catchment area details and index map of the Rispana River basin.
- To provide meteorological data for the catchment.

Instructions to Bidders

1. The bidder shall submit cost including all taxes as applicable in the bid.
2. The bidders are advised to undertake at their discretion a reconnaissance of the site at their cost, to familiarize themselves with the site conditions before preparing the bid.
3. Your tender should reach us at our NIH office by 29.10.2018 by 1500 hrs. in the office of Purchase Officer. NIH shall not be responsible for any delay in receipt of the tender. Late tenders shall not be considered. NIH reserves the right to reject any or all the tenders, without assigning any reasons thereof. The Bids shall be opened on the 30.10.2018 at 1500 hrs.

General Terms and Conditions

1. The bidder shall make their own arrangement for boarding, lodging, travel, transportation of survey equipment, labours, local transport etc. required for this work and shall include cost in their offer.
2. Time period for the work: 4 months from the date of award of the work.
3. Permission/authorization: It shall be the responsibility of the contractor to seek and obtain, well in time, necessary permission of authorization from concerned local or other offices and/or individual property owners etc. to approach, enter, measure, level, place instruments and equipment etc. as may be required to carry out the work. However, necessary authorization and assistance in getting permission may be extended by NIH at its discretion.
4. Supervision: The contractor shall provide at all times access to and facilitate inspection and supervision of the works and records for the authorized personnel/scientist of NIH.

5. Responsibilities of the bidder: The bidders shall be solely responsible for following sound technical and other methods and practices of hydrogeological characterization and mapping work, accuracy of the equipment, and field work.
6. Incomplete tender or tender received after the last date shall not be considered under any circumstances.

Financial Conditions

1. **The Payment towards carrying out various items of works as detailed shall be made to the successful bidder in the following manner:**
 - i. 40% on submission of Interim Report
 - ii. 40% on submission of Final Report
 - iii. 20% on acceptance of Final Report
2. In the event of any dispute, the decision of the DIRECTOR, NIH shall be final & binding. The venue of the arbitration shall be at local court, Roorkee.
3. NIH reserves the right to reject any one or all the tenders without assigning any reason thereof.
4. The bidder will have to quote the rates for aforesaid scope of work for hydrogeological characterization and mapping inclusive of all taxes/service tax. No extra payment will be entertained by NIH in respect of any claim whatsoever in the same case.
5. The bidder shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charges, which may be liable. The bidder shall bear all incidental charges carriages, storage and safe custody of materials to be used for conducting the study.

Special Conditions of Contract

1. The firm should have experience of completed projects involving hydrogeology, geology, and artificial recharge in Himalayan foothills.
2. The bidder shall nominate one person for liaisoning with NIH personnel in connection with the work.
3. NIH may, at its discretion, award total or part of the work depending upon their technical capabilities and financial offers and fund availability with NIH.
4. The bidder shall be solely responsible for the safety; loss, theft, and breakdown etc. of their equipment and safety of the manpower and shall get the same appropriately insured.
5. NIH shall deduct taxes at source, demand draft charges etc. as may be applicable and shall provide a certificate to this effect.
6. The survey details/data collected shall not be passed on to any other person or organization or used anywhere else by the contractor without the prior permission of NIH.

Scope of Work

- a. Study of rock type, their extensions and prepare the geological map
- b. Study of geological structures like folds, faults, joints and fractures
- c. Identification of springs and groundwater recharge sites.
- d. Study of hydrogeological properties of the geological formation
- e. Groundwater condition
- f. Type of aquifers and their extensions
- g. Hydrograph studies of ground water levels
- h. Preparation of hydro-geological map.

Deliverable

1. A detailed report on “Hydrogeological characterization and mapping of Rispana basin, Dehradun” including the following aspects-
 - a. Rock type, their extensions and the geological map
 - b. Geological structures like folds, faults, joints and fractures
 - c. Springs and groundwater recharge sites and recharge potential
 - d. Hydrogeological properties of the geological formation
 - e. Groundwater condition
 - f. Type of aquifers and their extensions
 - g. Hydrograph studies of ground water levels
 - h. Hydro-geological map, Hydrographs, Recharge site map, and GIS drawings.
2. Photographs and videos are to be made during the survey work and to be submitted in soft copy (DVD). Photographs of important locations in and around the project site are also to be included in the survey reports.

Schedule - 'A'

**NAME OF WORK: Hydrogeological characterization and mapping of Rispana basin,
Dehradun, Uttarakhand**

| Sl No. | Detail of Works | Amount Rs. | |
|--------|--|------------|----------|
| | | In Figures | In words |
| 1. | Annexure-I Hydrogeological characterization and mapping of Rispana basin | | |

We agree to execute the above work in accordance with the technical specifications and terms and conditions mentioned in this tender documents for a total contract price of Rs.....(Rupees.....) within the period specified in the invitation for tender.

Date

Name & Signature of the Authorized Signatory

Annexure - I

Hydrogeological characterization and mapping of Rispana basin

Rispana River flows through Dehradun City before joining river Suswa. The Suswa river is the tributary of river Song which joins River Ganga between Rishikesh and Haridwar. The Rispana river originates as a small spring from Lal Tibba peaks of Mussorie hills (2300 m above MSL) near Rajpur. After the monsoon season, a number of springs keep feeding round the year and contribute small amount of flow even in lean season. It flows south-westerly along Rajpur road over Doon gravels and the river course passes through small hamlets namely Nalapani, Rajpur, Chander Road, Defence Colony, Aamwala, Tapovan, Dandadhoran, Adhoiwala, Gujaram, Ajabpur before joining Suswa river. The catchment area of river Rispana is about 50 sq. km and the length of river course is about 25 km. The Rispana river carries significant flow in rainy season till the month of September. But, the flow reduces considerably in the winter season and it becomes almost negligible during hot summer months.

The Uttarakhand government has awarded the consultancy project title “Preparation of Strategic Land and Water Management Plan for Rejuvenation of Rispana River System” to National Institute of Hydrology, Roorkee.

The primary objective of this study is to prepare a plan of land and water management interventions for enhancement of ground water recharge and lean season flows in the springs, and conserve water in the catchment to sustain flows in Rispana River system. Further, the study will include identification of suitable sites for semi-structural and structural measures for in-situ-moisture retention, spring recharge and groundwater recharge, in-stream storages etc. This will require thorough geological investigations for whole Rispana river basin as listed below:

- a. Study of rock type, their extensions and prepare the geological map
- b. Study of geological structures like folds, faults, joints and fractures
- c. Identification of springs and groundwater recharge sites.
- d. Study of hydrogeological properties of the geological formation
- e. Groundwater condition
- f. Type of aquifers and their extensions
- g. Hydrograph studies of ground water levels
- h. Preparation of hydro-geological map.

The firm should have experience of completed projects involving hydrogeology, geology, and artificial recharge in Himalayan foothills